

Notice of Allowability

Application No.

10/781,726

Examiner

Lana N. Le

Applicant(s)

HIROSE, KOJI

Art Unit

2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 6/01/07.
2. ☒ The allowed claim(s) is/are 1 and 3.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

REASON FOR ALLOWANCE

1. Claims 1 and 3 are allowable over the cited prior art.
2. The following is an examiner's statement of reasons for allowance:

Regarding independent claim 1, the cited prior art Marko et al disclose a satellite digital radio broadcast receiver (fig. 6-A; fig. 6-B) having an IC (235') including a first reception series (227', 212', 235' for terrestrial processing path 231') for performing a reception processing of a satellite wave signal from a satellite and an IC (237') including a second reception series (229', 214', 237' for satellite processing path 233') for performing a reception processing of a ground wave signal from a repeater (18) (col 5, lines 15-17; col 4, lines 28-32) in order to receive both the satellite wave signal and the ground wave signal having the same broadcast contents and different modulation methods, the satellite digital radio broadcast receiver comprising: automatic gain control means (128'; fig. 6A) for amplifying a signal from a single antenna (110') at a variable gain amplifier (122'), and in accordance with a level of a signal outputted from the variable gain amplifier (122'), for controlling a gain of the variable gain amplifier to control the level of the signal outputted from the variable gain amplifier (122') (col 5, lines 53-64); and a two-way distributor (225') for distributing an output (output from @) of the automatic gain control means (128') to two distribution outputs (227', 212', 235' for terrestrial processing path 231', and 229', 214', 237' for satellite processing path 233'), wherein one of the two distribution outputs (231') from the two-way distributor (225') is supplied

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to said first integrated circuit (235') as an input signal to the first reception series (231'), and the other of the two distribution outputs from the two-way distributor is supplied to the second integrated circuit (237') as an input signal to the second reception series (233') (col 5, line 65 – col 6, line 41); wherein the two-way distributor (225') operate to distribute an input at a distribution ratio according to a gain of the first reception series and a gain of the second reception series (distribute the gain to amp 227' with of first reception series and amp 229' of second reception series).

The admitted prior art disclose the first and second reception series are in one IC (1C) (fig. 3).

Loper (US 5,179,730) discloses one direct conversion receiver having the same total gain on each channel that has been split (col 6, lines 8-13).

Ichihara (US 2001/0,022,821) discloses a splitted in phase and quadrature component of the same receiver being compared and gain controlled based upon the comparison (para. 33).

However, the cited prior art fail to disclose or suggest the satellite digital radio broadcast receiver having a total gain through the first reception series being different from a total gain through the second reception series, and the two-way distributor which operates to distribute an input at a distribution ratio according to the difference between the total gain through the first reception series and the total gain through the second reception series.

Regarding claim 3, it is dependent on claim 1 and is therefore also allowable.


Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lana N. Le whose telephone number is (571) 272-7891. The examiner can normally be reached on M-F 9:30-18:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward F. Urban can be reached on (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LNL
/lnl/


8-15-07
LANA LE
PRIMARY EXAMINER